REVIEWED
By Sarah Collins at 1:41 pm, Dec 29, 2021

12/27/2021

Worklist: 5477

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-2631		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2634		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2635		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2650		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2664		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2664	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2681		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2681	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2701		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2720		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2732	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2745		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

Extraction Date: 12/27/21 Analyst: Anne Nord
Plate lot#: 210611 Plate retest date: 12/11/21

Mobile phase A: 10mM Ammonium Formate 0.5M Ammonium Hydroxide **Mobile phase B:** 0.1% Formic Acid in MeOH Ethyl Acetate LC 20% Methanol
Blank Blood Lot: 21D52496 **Blank Urine lot:** ~~83121~~ A 12/29/21 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
LCMS-QQQ ID: 69679

Pre-Analytic:

☒ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
☒ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Urine hydrolysis pipette: 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer mix for at least five minutes ambient temperature.
Pipette **250 µL blood (calibrated pipette)** or 250 ul urine in wells of analytical (standards) plate. **Pipette ID: 1926134**
☒ 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 4. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 6. Transfer **300 µL of blood or urine+base** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) *Manifold ID: 66792*
☒ 8. Wait 5 minutes.
☒ 9. Add **900 µL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 12. Add **900 µL ethyl acetate.**
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. add 50 ul 1% HCl in MeOH Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
☒ 16. Reconstitute in **100 µL 20% LC MeOH** in LC Water and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Open quantitation software and create a new quantitation batch.
☒ 2. Make necessary changes to integration limits
☒ 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater or 2-5 for discretionary range.
☒ 4. Did all QCs pass for each analyte? (If no is it described in comments?)
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:
When the calibrator tried to inject the injector crashed into the hotel. I returned the plate to the hotel and reset the injector. The calibrator then injected; this injection had multiple peaks for some compounds. I reinjected the calibrator and the reinjection was used for evaluation.

	1	2	3	4	5	6	7	8	9	10	11	12
A			negative blood	2681-1								
B	cal 1		blood control	2681-2								
C			2631-1	2701-1								
D			2634-1	2720-1								
E			2635-1	2732-2								
F			2650-1	2745-1								
G			2664-1									
H			2664-2									

lab number format
C2021-____-_

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendydramine, methamphetamine, alprazolam, methocarbamol, morphine

Stock solution 1mg/ml 50 ul each in 4750 ul MeOH (Honeywell EA078-US)

ppd 6/25/21: Exp: 6/25/2022 lot 62522 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
methocarbamol	FN01212005	1/1/2023
alprazolam	FE06102008	6/1/2025
Diphendydramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

AM 25/28 control 500 ul working solution (62522) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 6/25/21, exp 6/25/22 lot u62522 negative urine 5621 by AMN

AM 25/28 Blood Control: 50ul working solution (41422) in 4950 ul neg blood (100ng/mL Expected concentration)

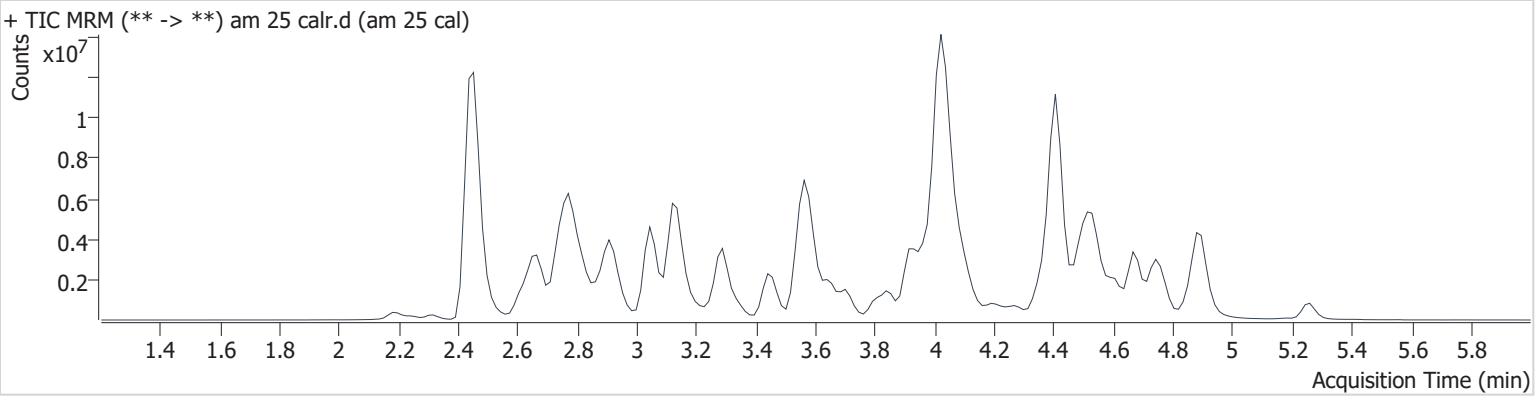
ppp 6/25/21, exp 6/25/22 lot b62522 neg blood 21D52496 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\mds.batch.bin
Calibration Last Update 12/27/2021 4:22:34 PM

Instrument	69679	**Data File**	am 25 calr.d
Type	Cal	**Sample**	am 25 cal
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-B1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/27/2021 2:51:01 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.982	60332	184.2	31.0	970760	10.000
7-aminoclonazepam	3.354	143252	88.5	93.1	1009235	10.000
7-aminoflunitrazepam	3.583	477826	386.1	7185.9	1009235	10.000
Acetyl Fentanyl	4.269	168635	167.5	31821.5	13557760	10.000
Acetyl Norfentanyl	2.656	152287	141278.1	104.3	13557760	10.000
a-hydroxyalprazolam	4.377	40088	1310.2	50.2	1009235	10.000
alpha-hydroxymidazolam	4.468	709100	145.8	203973.3	1009235	10.000
alpha-PHP	3.986	1522799	1328.6	679.8	4145924	10.000
alpha-PVP	3.666	2074040	853.2	966.6	4145924	10.000
Alprazolam	4.488	860722	390.1	186.8	3424094	10.000
Amitriptyline	4.584	391344	139.8	255.4	2025468	10.000
Amphetamine	2.662	1832382	762.4	631.1	4145924	10.000
Benzoylecgonine	3.122	44868	695.8	41.4	88105	10.000
Brompheniramine	4.055	37390	218.9	1198.2	30123374	10.000
Buprenorphine	5.257	91265	33293.9	949.3	2072163	10.000
Bupropion	3.987	2123869	553.5	714.0	8575554	10.000
Carbamazepine	4.064	3037313	∞	422.5	30526	10.000
Carisoprodol	4.046	364434	266.4	77.4	1979281	10.000
Chlordiazepoxide	4.612	341030	130.0	193.0	3424094	10.000
Chlorpheniramine	3.937	2712566	12136.7	22.6	30123374	10.000
Citalopram	4.038	1306106	217.9	334.0	30123374	10.000
Clomimpramine	4.854	566695	443.4	289.5	4033472	10.000
Clonazepam	4.301	118461	31972.0	9409.4	3424094	10.000
Clonazolam	4.220	328150	190632.7	63945.8	3424094	10.000
Cocaethylene	3.809	2001855	2356.8	1839476.3	30123374	10.000
Cocaine	3.596	2606929	1015.2	400.8	13204278	10.000
Codeine	2.924	211732	58766.3	122.9	107121	10.000
Cyclobenzaprine	4.461	830911	1860.1	37.7	2025468	10.000
Desipramine	4.354	1174735	348577.5	611.1	2025468	10.000
Dextromethorphan	4.122	874466	930.6	191894.7	4945270	10.000
Dextrorphan	3.265	1216662	768.4	405.5	4945270	10.000
Diazepam	4.735	574458	395341.0	179.3	3424094	10.000
Dihydrocodeine	2.679	579007	283.0	265.7	2167041	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Diphenhydramine	4.031	3917909	570.1	27082.6	30123374	10.000
Doxepin	4.259	683734	307.1	97.8	9627036	10.000
Doxylamine	3.554	4253424	409.0	8729.0	4945270	10.000
EDDP	3.998	933066	461.9	362.4	2167041	10.000
Estazolam	4.397	1518727	279.4	1824484.2	3424094	10.000
Etizolam	4.514	99409	24656.8	173204.2	3424094	10.000
Fentanyl	4.515	101885	46.3	107.5	6593374	10.000
Flualprazolam	4.346	293125	164790.8	74261.2	3424094	10.000
Flunitrazepam	4.425	630284	225812.4	234.0	3424094	10.000
Fluoxetine	4.271	602644	1081.4	27873.4	1146368	10.000
Flurazepam	4.528	1555871	4780435.2	126411.0	3424094	10.000
Hydrocodone	3.214	633610	47.1	47.0	4009300	10.000
Hydromorphone	2.485	445489	145.3	723.9	107121	10.000
Imipramine	4.506	1591441	563.9	310.9	2025468	10.000
Ketamine	3.972	1544219	742.4	79.9	8780885	10.000
Lamotrigine	3.434	116291	52.7	1074.4	30123374	10.000
Levamisole	3.069	1335784	216.4	155.4	4945270	10.000
Levetireacetam	2.325	262537	808.8	263.4	4033472	10.000
Lorazepam	4.285	16600	16.8	9929100	3424094	10.000
Maprotiline	4.583	208648	146.4	186965.3 55.5	2025468	10.000
MDA	2.780	1043719	3647.3	240.9	12330179	10.000
MDEA	3.054	1843346	326.8	128.0	12330179	10.000
MDMA	2.886	2185632	9098.9	402.9	12330179	10.000
Meperidine	3.664	1246046	263.5	525.5	4945270	10.000
Meprobamate	3.437	85720	416.0	49.9	1979281	10.000
Methadone	4.379	2435499	2684.5	346.2	2167041	10.000
Methamphetamine	2.782	6108254	∞	∞	12330179	10.000
Methocarbamol	3.343	93788	262.6	1793.9	2167041	10.000
Methylphenidate	3.451	4395453	805.1	3251.4	8780885	10.000
Metoprolol	3.279	352438	7618.2	8293.4	4945270	10.000
Midazolam	4.669	266407	89179.5	95688.0	3424094	10.000
Mirtazapine	4.539	1591363	1589.5	1449.6	4945270	10.000
Mitragynine	4.512	165594	65376.3	424.1	4945270	10.000
Morphine	2.244	126575	322.9	691.2	107121	10.000
Norbuprenorphine	3.790	26052	12472.2	6700.2	107121	10.000
Nordiazepam	4.569	199348	3730.4	487.0	3424094	10.000
Norfentanyl	3.144	2649619	454.8	437.4	13557760	10.000
Norhydrocodone	2.743	32510	112.9	4498.9	4009300	10.000
norketamine	3.942	239164	363.4	1021.8	8780885	10.000
Normeperidine	3.466	1265491	9051.6	503.3	30123374	10.000
Noroxycodone	2.649	602763	∞	246.7	5960524	10.000
Nortriptyline	4.400	385475	167127.3	118.7	2025468	10.000
O-desmethyl-tramadol	2.685	3473180	1343.9	274.8	30123374	10.000
Olanzapine	4.087	437090	182.7	187.5	30526	10.000
Oxazepam	4.367	63497	86.0	74.6	350079	10.000
Oxycodone	2.861	1256586	320.1	653.9	5960524	10.000
Oxymorphone	2.179	579924	175.9	220.0	107121	10.000
Paroxetine	4.330	121398	41236.6	391.2	1146368	10.000
Phenazepam	4.514	237091	105006.0	69581.4	3424094	10.000
Phencyclidine	3.864	2216632	981037.7	185.5	4945270	10.000
Phentermine	2.949	23033	206.4	∞	8780885	10.000
Phenytoin	3.955	56336	33016.3	49.3	30526	10.000
Promethazine	4.613	1895493	2045.2	143.7	30123374	10.000
Pseudoephedrine	2.461	38117896	40690.6	101234.6	12330179	10.000
Quetiapine	4.727	2343731	3756.9	344891.4	22067184	10.000
Sertraline	4.611	232524	1433.4	2074.0	1146368	10.000
Sufentanil	4.940	74439	30357.8	100.2	13557760	10.000
Tapentadol	3.298	2182140	1142.3	375.8	2167041	10.000

AM #25 Multi-Drug Screen Results

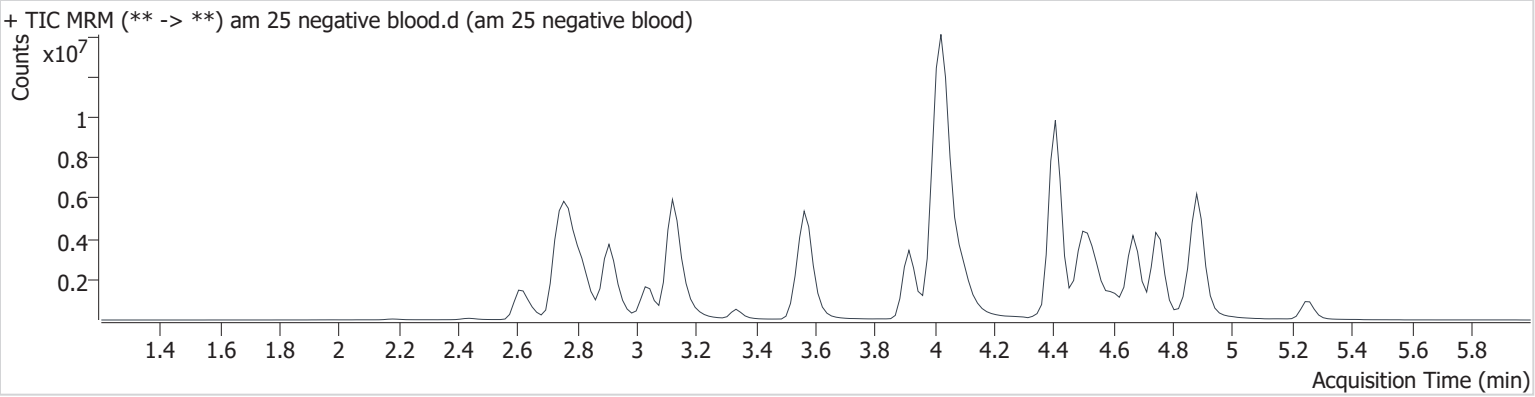
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Temazepam	4.535	675528	307.7	30.8	3424094	10.000
Tramadol	3.295	3592801	1252.5	52.1	30123374	10.000
Trazodone	4.911	1993120	841564.0	463.8	9627036	10.000
Venlafaxine	3.706	2756873	3135.2	207.8	1146368	10.000
Zaleplon	4.196	652923	216189.7	5869.9	22067184	10.000
Zolpidem	4.427	4059043	8213.6	1140.5	22067184	10.000
Zopiclone	4.420	418516	1349.8	163033.3	2094215	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\mds.batch.bin
Calibration Last Update 12/27/2021 4:22:34 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-A3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/27/2021 2:24:12 PM		
Sample Info.			

Sample Chromatogram



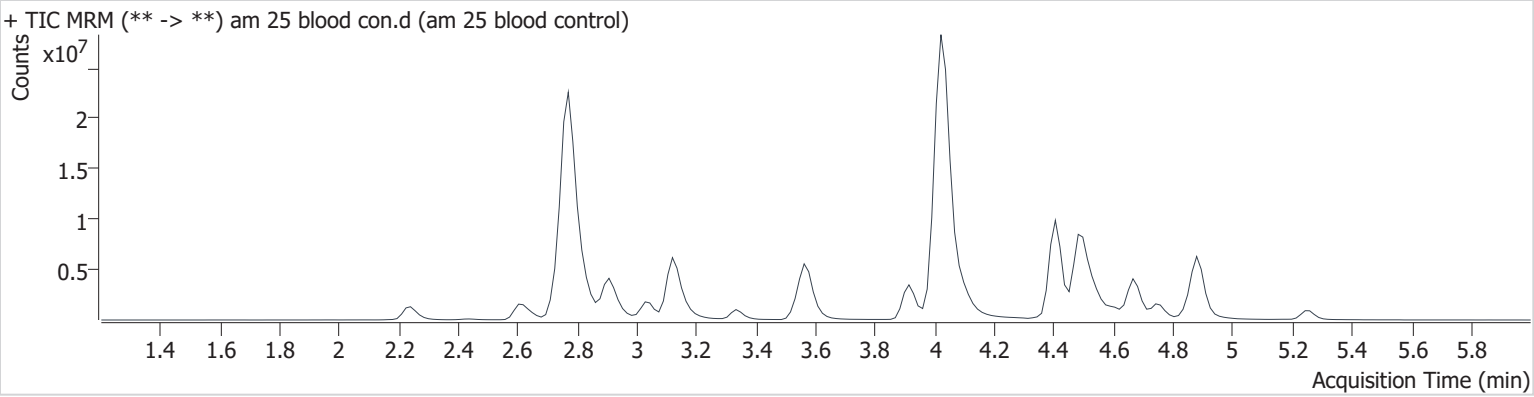
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\mds.batch.bin
Calibration Last Update 12/27/2021 4:22:34 PM

Instrument	69679	**Data File**	am 25 blood con.d
Type	Sample	**Sample**	am 25 blood control
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-B3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/27/2021 2:30:54 PM		
Sample Info.			

External control re-test.

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.488	8465210	34945.8	6200.7	4510282	74.665
Diphenhydramine	4.031	38956898	1307.3	1077.5	36642224	81.743
Methamphetamine	2.782	32779352	88348.0	∞	15336590	43.144
Methocarbamol	3.343	765534	9849.2	209.9	2672469	66.187
Morphine	2.244	1411580	11687.8	2854.3	134985	88.500

AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 12/27/21 Analyst: Anne Nord

Plate lot#: 210609 Plate retest date: 12-9-21

Mobile phase A: 10mM Ammonium Formate 0.1% Formic Acid in Water **Mobile phase B:** 0.1% Formic acid in MeOH MTBE Hexane
Blank Blood Lot: 21D52496 **Urine Blank:** ~~83121~~ 12/29/21 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)
LCMS-QQQ ID: 69679

Pre-Analytic:

☒ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
☒ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

Analytic:

☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
☒ 2. Urine hydrolysis: add 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.
Pipette **1000 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: K52558g**
Pipette 1000 ul urine to analytical (standards) plate.
☒ 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 4. Pipette **500 µL 0.1% formic acid in blood** wells **500 ul saturated phosphate buffer in urine** wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 6. Transfer 8**00 µL of blood acid or urine acid** mixture to corresponding wells of SLE+ plate.
☒ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
☒ 8. Wait 5 minutes.
☒ 9. Add **2.25 mL MTBE** (add in 3 increments of 750 µL).
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 12. Add **2.25 mL hexane** (add in 3 increments of 750 µL).
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.
SPE Dry ID: 66819
☒ 16. Reconstitute in **100 µL 100% LCMS MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

Post-Analytic

☒ 1. Create batch and process data.
☒ 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
☒ 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
☒ 4. Did all QCs pass for each analyte? Yes
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: THC-OH curve range 3-100
C2021-2631-1, c2021-2634-1, c2021-2635-1 initially the wrong plate position was injected these injections were not evaluated. The correct plate position was then injected and evaluated.

	1	2	3	4	5	6
a	cal 1	neg blood	2681-1			
b	cal 2	blood external control	2681-2			
c	cal 3	2631-1	2701-1			
d	cal 4	2634-1	2720-1			
e	Cal 5	2635-1	2732-2			
f	cal 6	2650-1	2745-1			
g	cal 7	2664-1				
h	Internal control	2664-2				

C2021-____-_

~~* well clogged added additional sample in a new well, this well was not extacted~~ A

12/29/21

Toxicology AM method 27/26 external prep informati

working solution 15 ug/ml in meoh C-THC, THC-OH, 7.5 ug/ml THC

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 150 ul THC-OH in 9692.5 ul meOH
Ppd 8/26/21 Exp: 8/26/22 lot 82621 by AMN

Drug	lot	expiration
C-THC	FE04151901	6/1/2024
THC-OH	FE06152002	6/1/2025
THC	FE04222001	5/1/2025

AM 27/26 blood control 100 ul working solution in 9900 ul blood

ppd 12/27/21 exp 8/26/22 blood lot 21D52496	lot b122721	Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	by amn

AM 27/26 urine control 400 ul working solution in 9600 ul urine **out of use**

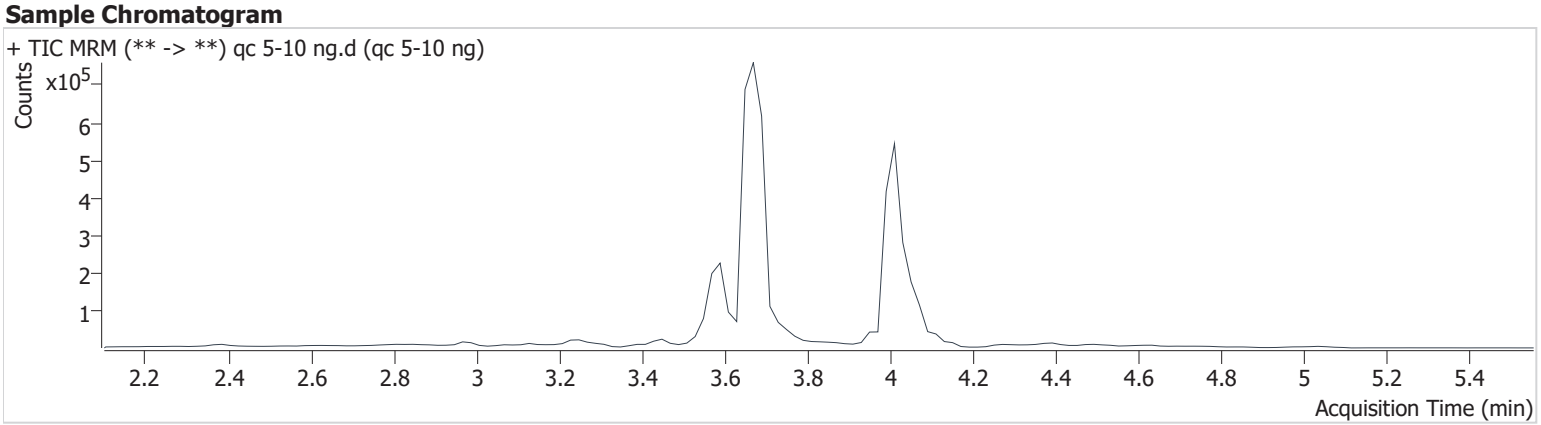
ppd 8/26/21 Exp 8/26/22 neg urine lot 5621	lot u82621	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	last used 11/1/21
ppd 11/2/21 Exp 8/26/22 neg urine lot 83121	lot u11221	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	qc 5-10 ng.d
Type	QC	**Sample**	qc 5-10 ng
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 5:18:14 PM		
Sample Info.			

Sample Chromatogram



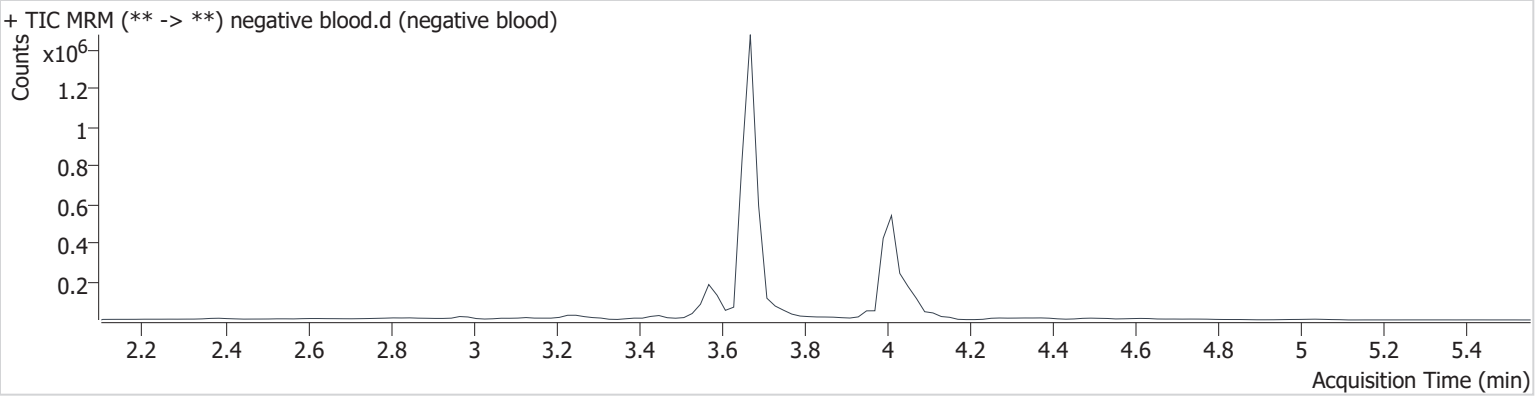
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	8020	212435	4.475 ng/ml
THC-COOH	3.592	78367	488230	14.547 ng/ml
THC-OH	3.679	28091	2318522	6.777 ng/ml

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update	12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	negative blood.d
Type	Sample	**Sample**	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-A2	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 5:24:52 PM		
Sample Info.			

Sample Chromatogram

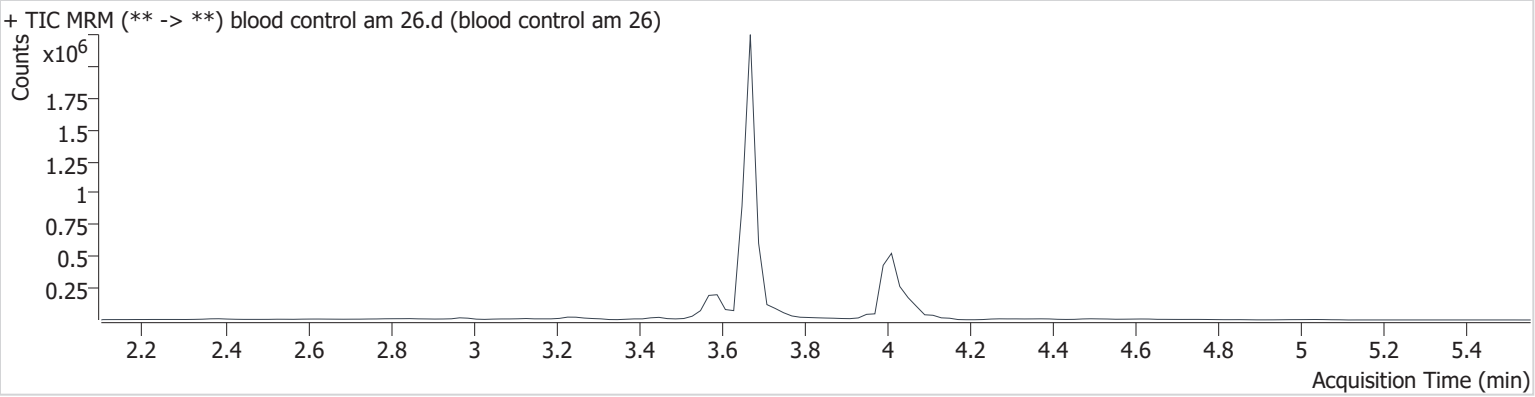


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	blood control am 26.d
Type	Sample	**Sample**	blood control am 26
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B2	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 5:31:29 PM		
Sample Info.		external blood control, plate re-test.	

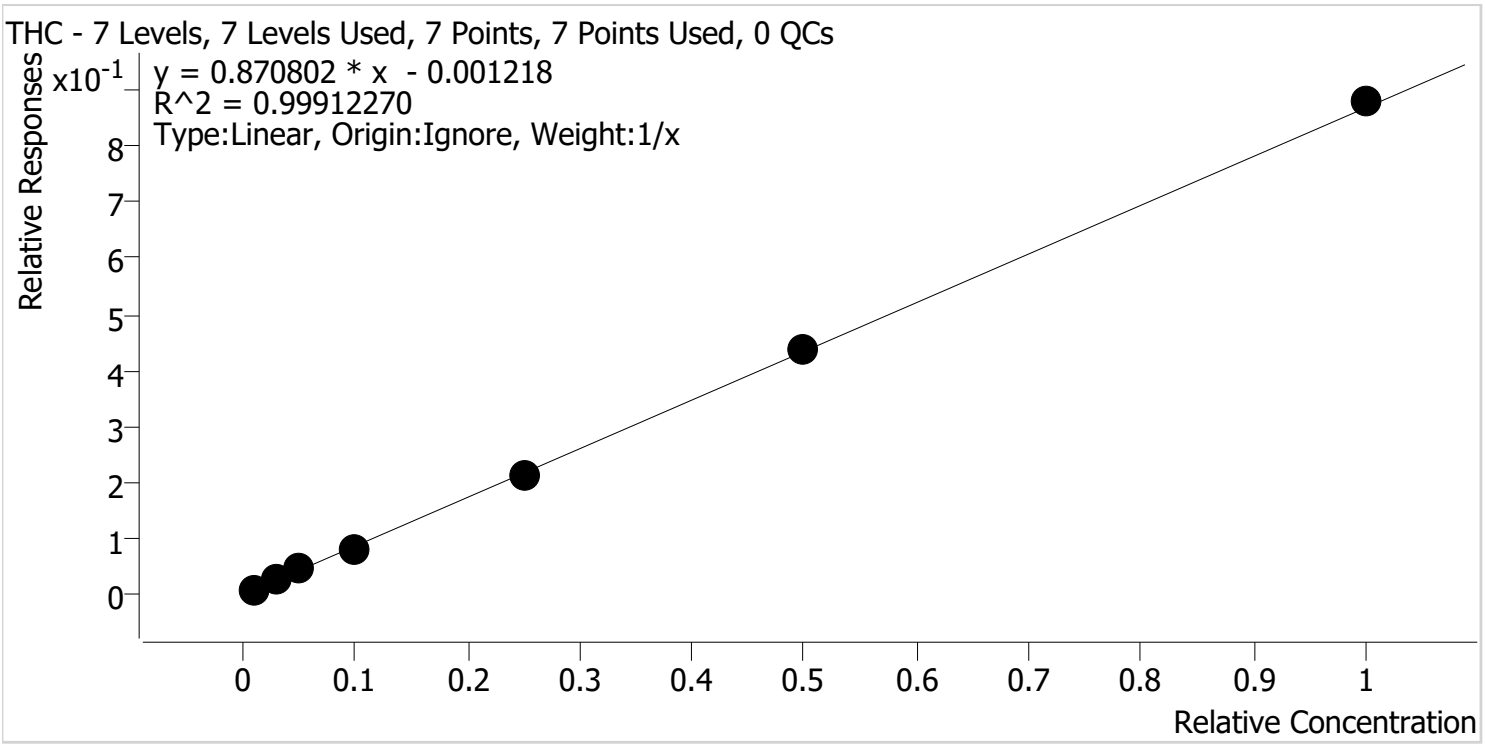
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	13602	213329	7.462 ng/ml
THC-COOH	3.592	73441	432732	15.352 ng/ml
THC-OH	3.679	110056	3887064	15.510 ng/ml

Compound Calibration Report

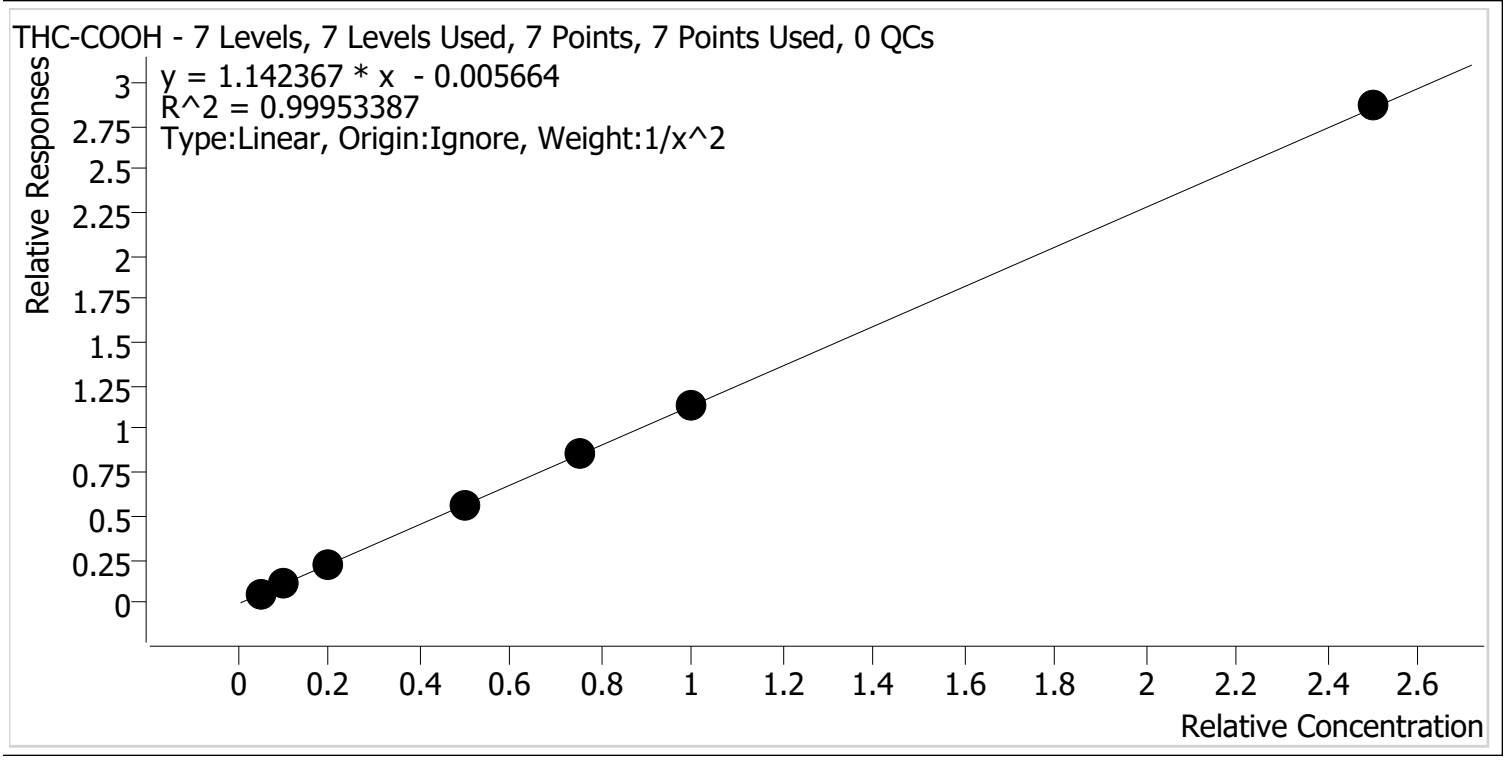
Batch results	D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Last Cal. Update	12/28/2021 11:28 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	106.0
cal 2	2	✔	3.0	3.0	99.3
cal 3	3	✔	5.0	5.3	105.6
cal 4	4	✔	10.0	9.0	90.2
cal 5	5	✔	25.0	24.4	97.5
cal-6	6	✔	50.0	50.0	100.1
cal-7	7	✔	100.0	101.2	101.2

Compound Calibration Report

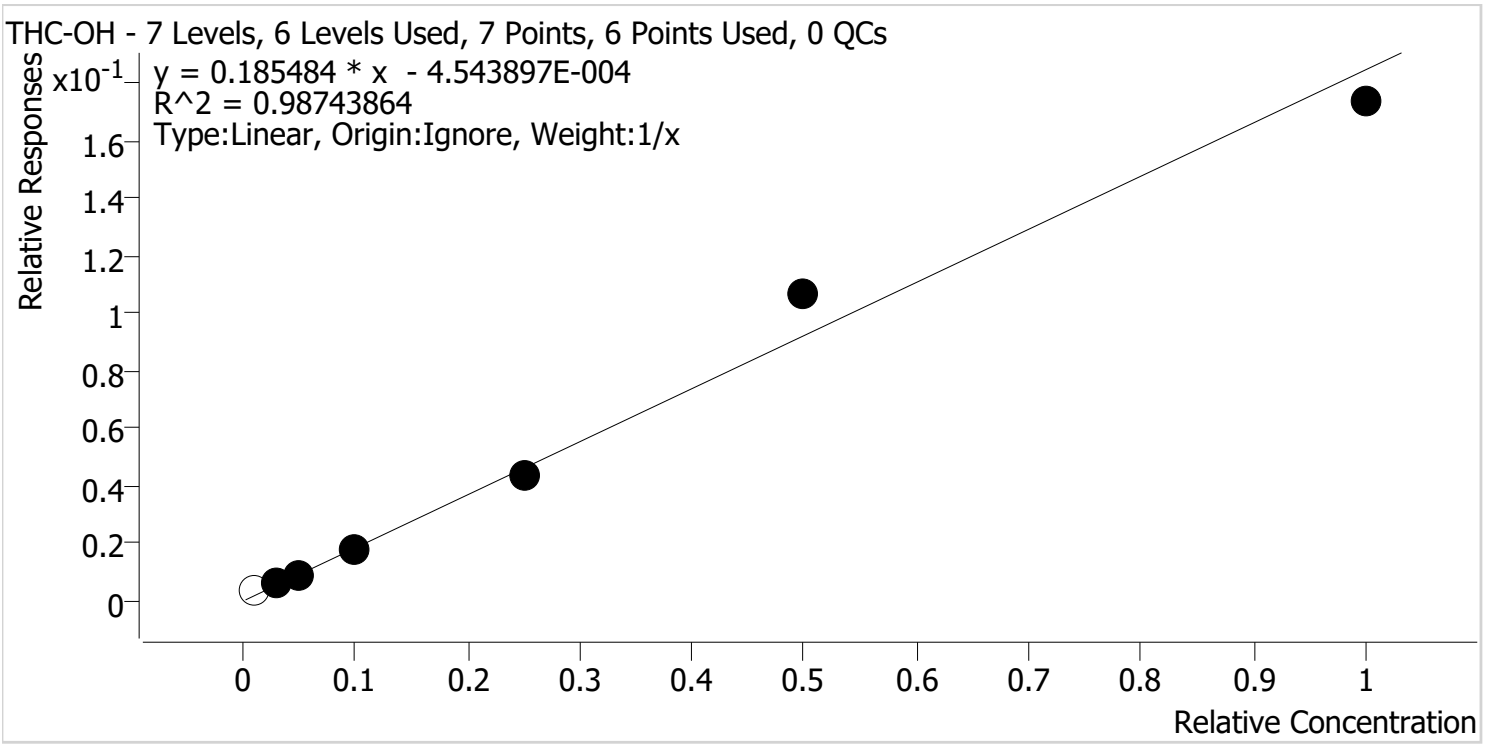
Batch results	D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Last Cal. Update	12/28/2021 11:28 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.1	101.8
cal 2	2	✔	10.0	9.7	96.6
cal 3	3	✔	20.0	19.8	99.0
cal 4	4	✔	50.0	49.9	99.8
cal 5	5	✔	75.0	76.1	101.5
cal-6	6	✔	100.0	100.7	100.7
cal-7	7	✔	250.0	251.3	100.5

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Last Cal. Update	12/28/2021 11:28 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✗	1.0	2.2	216.4
cal 2	2	✔	3.0	3.1	103.2
cal 3	3	✔	5.0	4.9	98.0
cal 4	4	✔	10.0	9.5	94.8
cal 5	5	✔	25.0	23.4	93.8
cal-6	6	✔	50.0	58.1	116.2
cal-7	7	✔	100.0	94.0	94.0

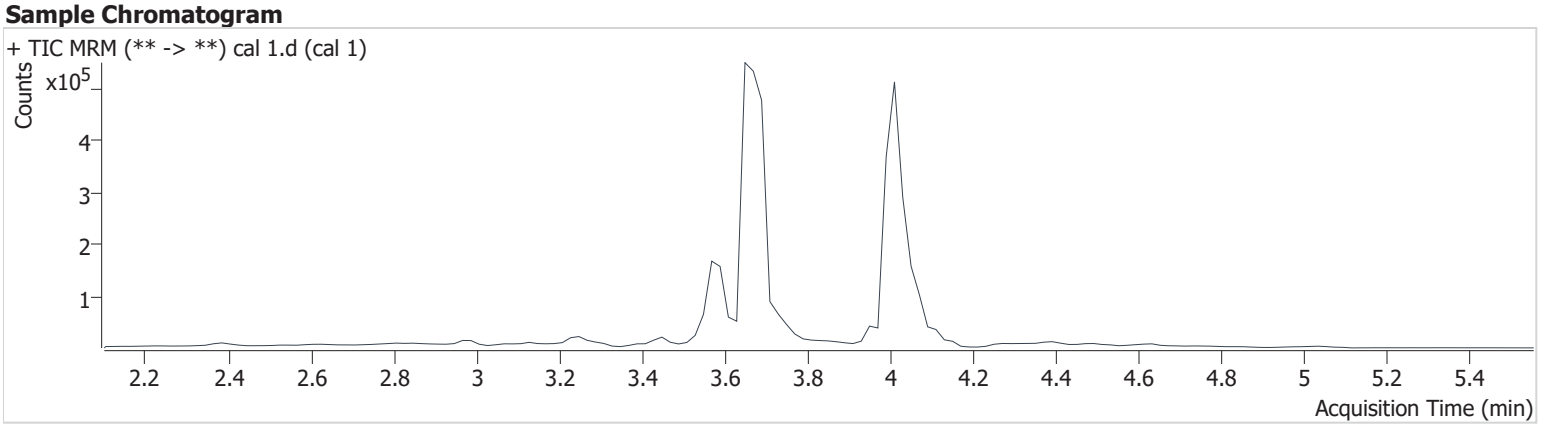
cal 1 dropped due to accuracy and peak shape.

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal 1.d
Type	Cal	**Sample**	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 4:25:29 PM		
Sample Info.			

Sample Chromatogram



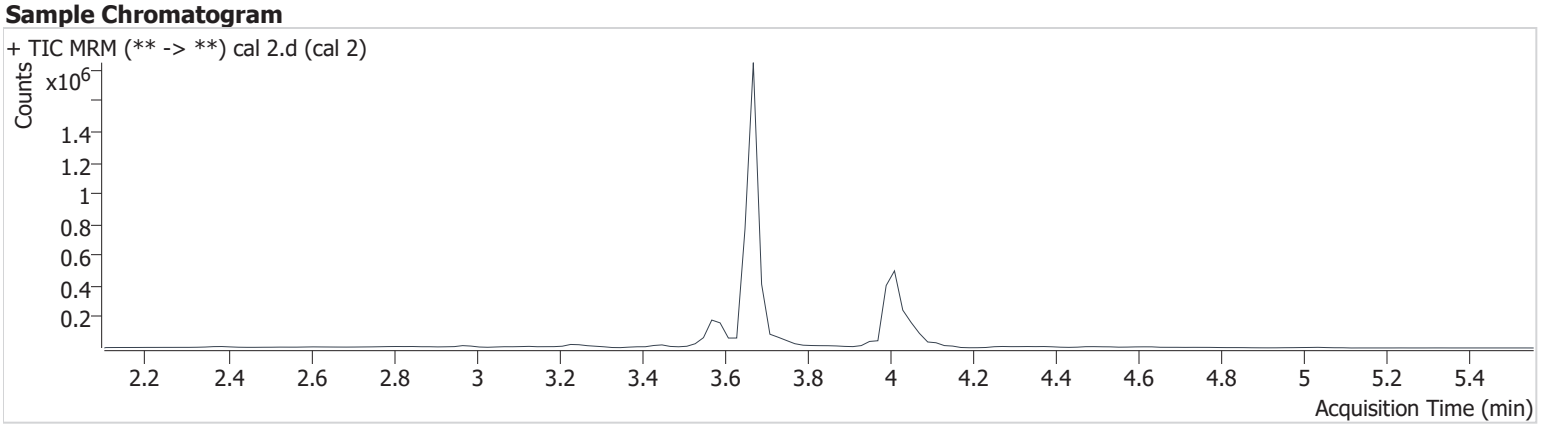
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	1530	190878	1.060 ng/ml **Low**
THC-COOH	3.592	22776	433920	5.091 ng/ml **Low**
THC-OH	3.679	7015	1970771	2.164 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal 2.d
Type	Cal	**Sample**	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 4:32:07 PM		
Sample Info.			

Sample Chromatogram



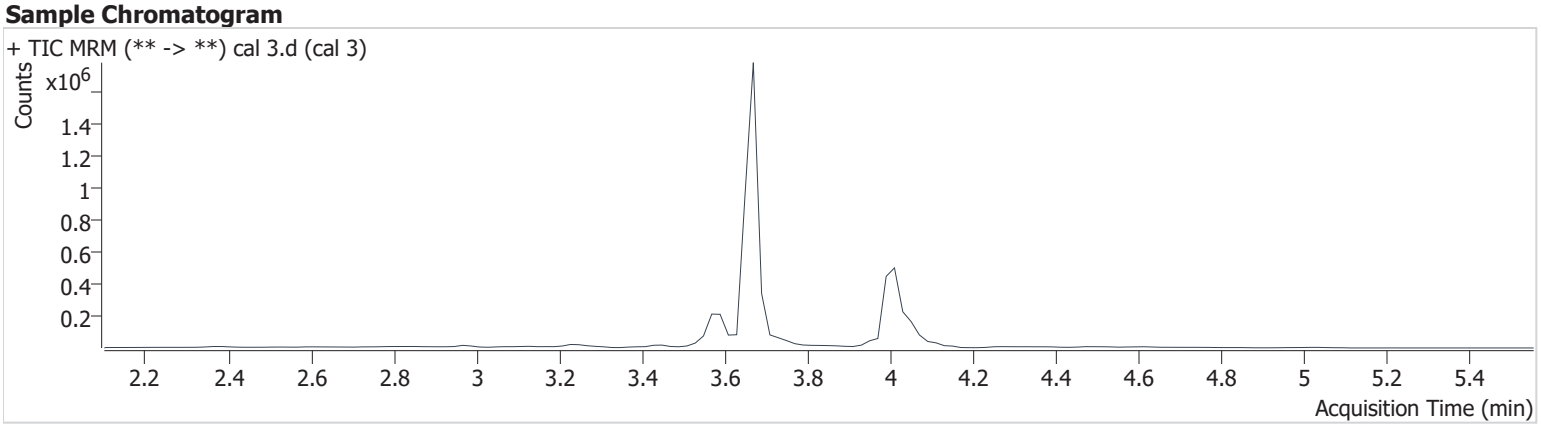
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	4927	199248	2.979 ng/ml **Low**
THC-COOH	3.592	43514	415533	9.663 ng/ml **Low**
THC-OH	3.679	19098	3610059	3.097 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal 3.d
Type	Cal	**Sample**	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 4:38:43 PM		
Sample Info.			

Sample Chromatogram



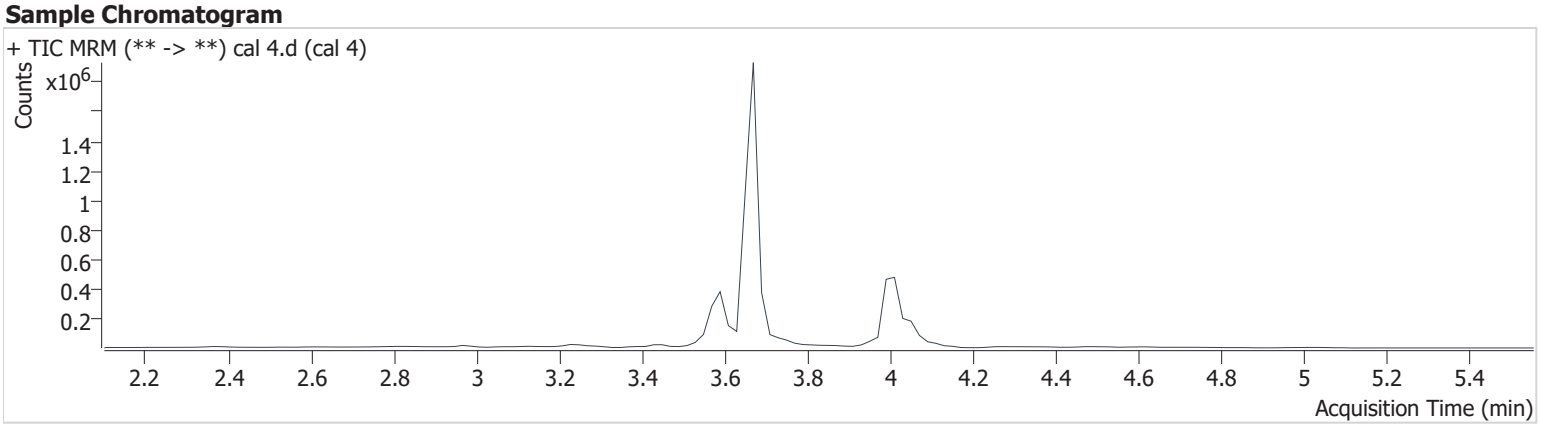
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	8665	193630	5.279 ng/ml
THC-COOH	3.592	91754	416173	19.795 ng/ml
THC-OH	3.679	30808	3567881	4.900 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal 4.d
Type	Cal	**Sample**	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-D1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 4:45:19 PM		
Sample Info.			

Sample Chromatogram



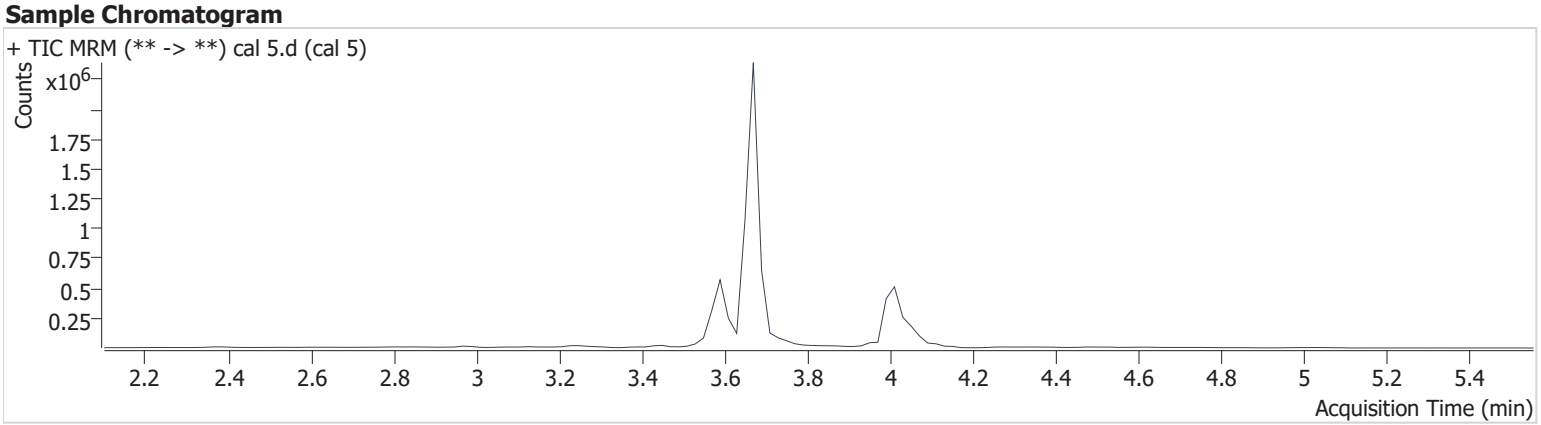
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	16297	210635	9.025 ng/ml
THC-COOH	3.592	241565	427841	49.921 ng/ml
THC-OH	3.679	61080	3566052	9.479 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal 5.d
Type	Cal	**Sample**	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 4:51:55 PM		
Sample Info.			

Sample Chromatogram



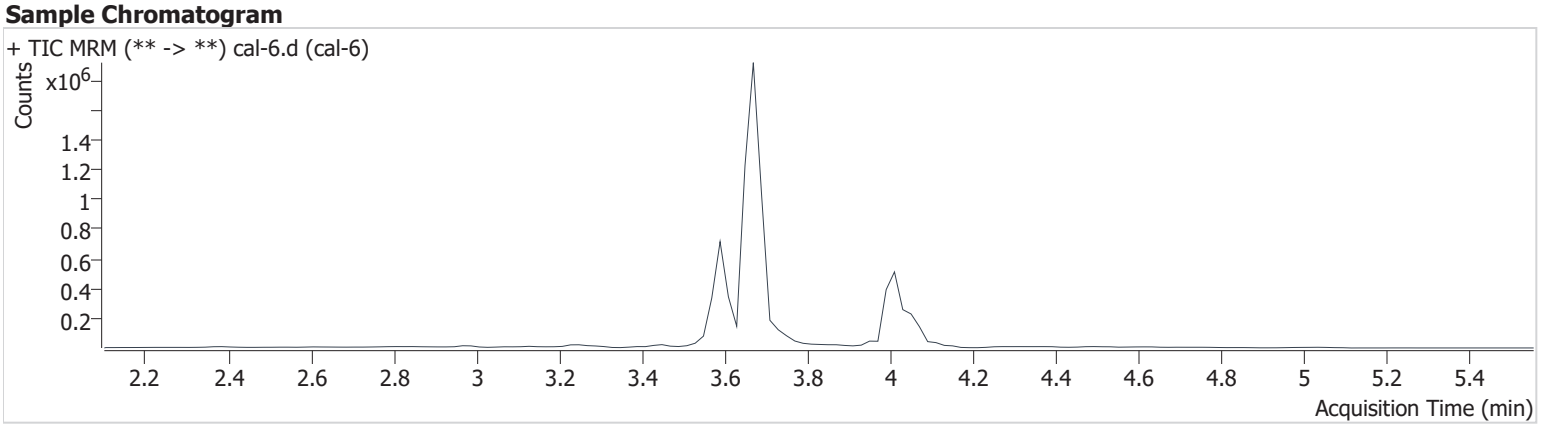
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	39812	188629	24.377 ng/ml
THC-COOH	3.592	384386	444859	76.134 ng/ml
THC-OH	3.679	165923	3855537	23.446 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal-6.d
Type	Cal	**Sample**	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 4:58:32 PM		
Sample Info.			

Sample Chromatogram



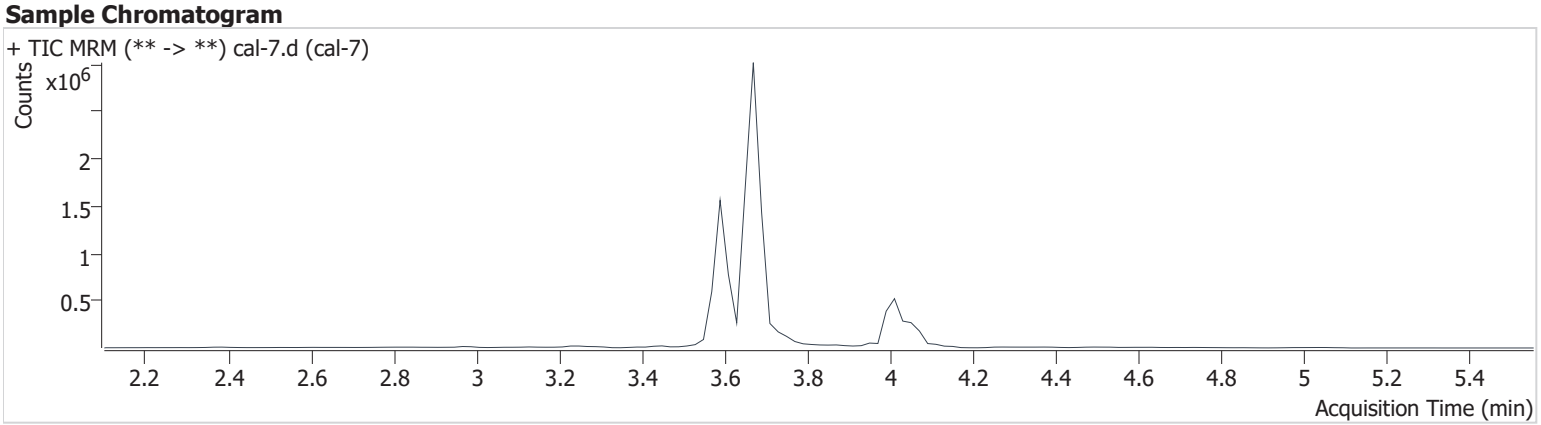
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	97907	225272	50.050 ng/ml
THC-COOH	3.592	512985	448047	100.721 ng/ml
THC-OH	3.679	350210	3263443	58.101 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\122721\QuantResults\cann.batch.bin
Calibration Last Update 12/28/2021 11:28:53 AM

Instrument	69679	**Data File**	cal-7.d
Type	Cal	**Sample**	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-G1	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/27/2021 5:05:08 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	180326	204849	101.229 ng/ml
THC-COOH	3.592	1269079	442978	251.280 ng/ml
THC-OH	3.679	662377	3809911	93.976 ng/ml